

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043316.D
 Acq On : 08 Dec 2025 17:00
 Operator : SY/MD
 Sample : Q3799-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 16-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

Quant Time: Dec 09 00:13:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	146093	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	393021	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306652	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	232936	10.363	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8618	0.418	ppbv	92
3) Chlorodifluoromethane	1.473	51	2556m	0.126	ppbv	
4) Chloromethane	1.531	50	5664	0.735	ppbv	98
9) Propene	1.483	41	14559m	1.692	ppbv	
10) Heptane	4.965	43	3437m	0.134	ppbv	
11) Trichlorofluoromethane	1.874	101	4165	0.209	ppbv	86
13) Ethanol	1.722	45	462202	152.750	ppbv	99
15) Acetone	1.832	43	604849	29.800	ppbv	97
17) tert-Butyl alcohol	2.046	59	3190m	0.120	ppbv	
19) Isopropyl Alcohol	1.910	45	7888776	687.812	ppbv #	38
20) Methylene Chloride	2.062	84	44935	7.301	ppbv	89
26) Hexane	2.826	57	52020	2.710	ppbv #	72
34) 2-Butanone	2.554	43	12307	0.444	ppbv	99
35) Carbon Tetrachloride	3.755	117	2261m	0.076	ppbv	
36) Benzene	3.648	78	7554	0.201	ppbv	95
50) 4-Methyl-2-Pentanone	5.745	43	4131m	0.106	ppbv	
53) Toluene	6.920	91	11377	0.255	ppbv	100
58) Ethyl Benzene	9.344	91	13162	0.223	ppbv	93
59) m/p-Xylene	9.523	91	42461	0.897	ppbv	97
60) o-Xylene	9.953	91	11276	0.239	ppbv	90
61) Styrene	9.862	104	2498m	0.121	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

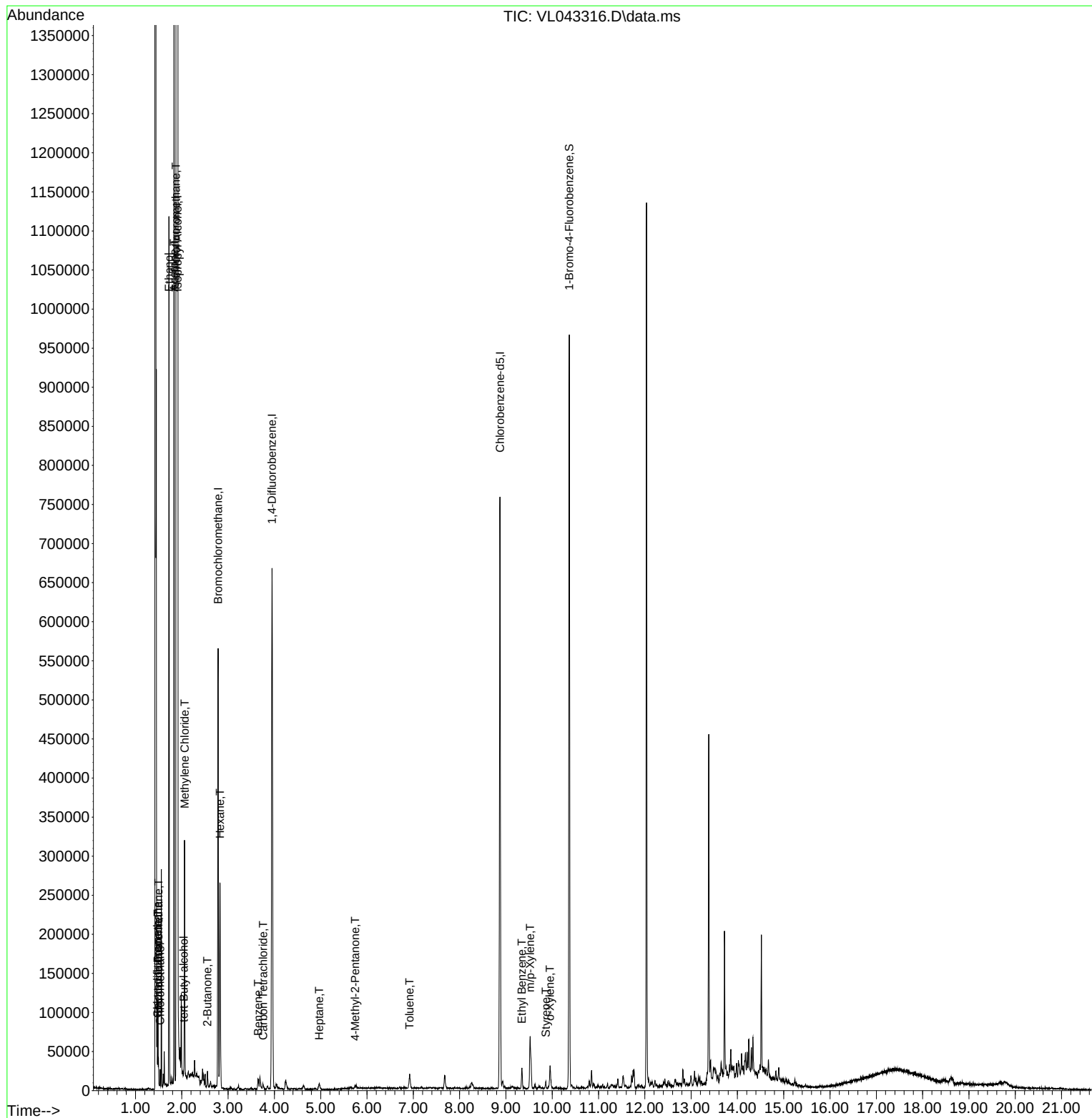
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043316.D
Acq On : 08 Dec 2025 17:00
Operator : SY/MD
Sample : Q3799-06
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ALS Vial : 1 Sample Multiplier: 1

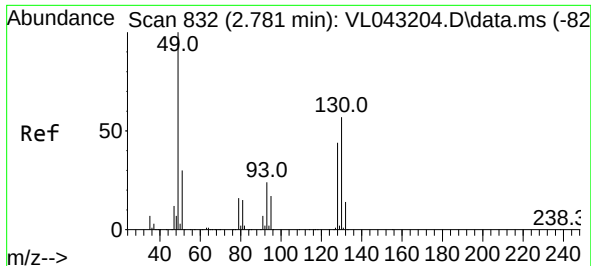
Instrument :
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16-IA-1

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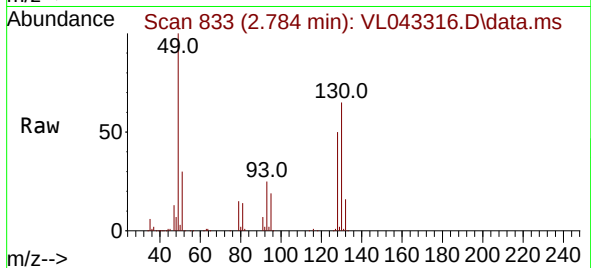
Quant Time: Dec 09 00:13:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

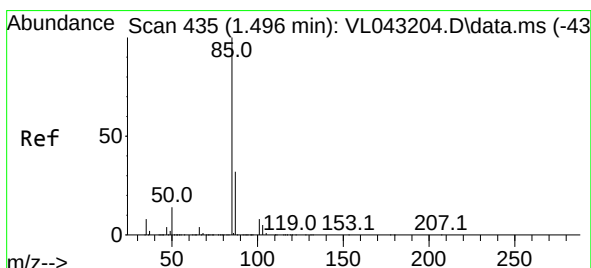
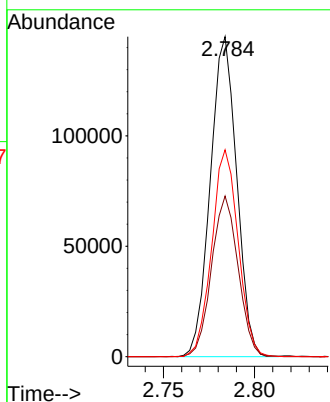
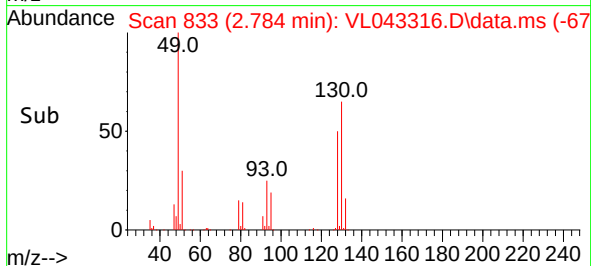
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



Tgt Ion: 49 Resp: 14609
Ion Ratio Lower Upper
49 100
128 50.3 23.0 69.0
130 64.6 29.9 89.7

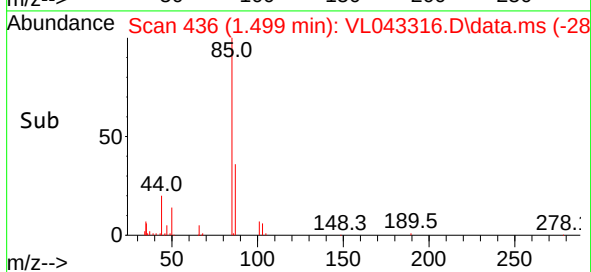
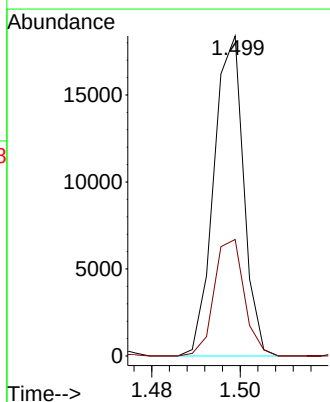
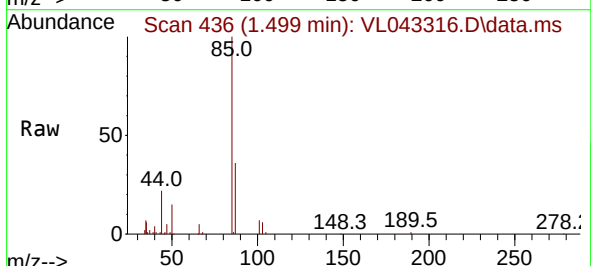
Manual Integrations
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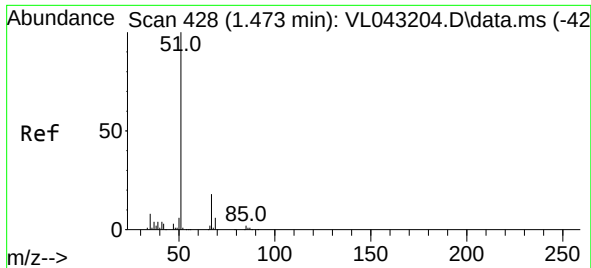
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

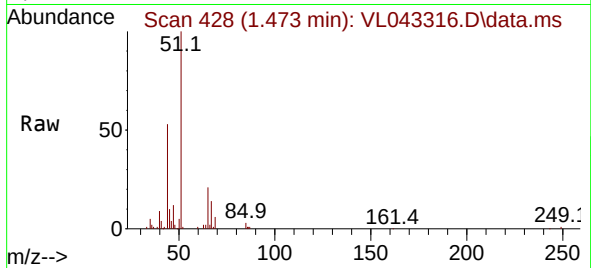
Tgt Ion: 85 Resp: 8618
Ion Ratio Lower Upper
85 100
87 36.4 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.126 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

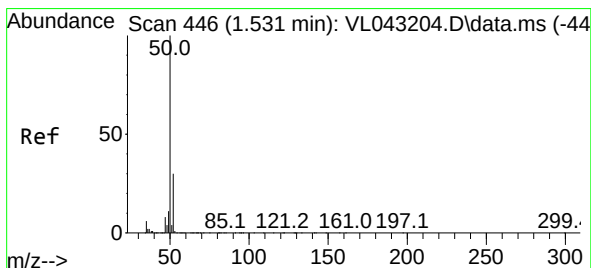
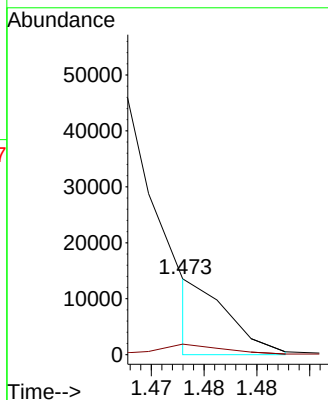
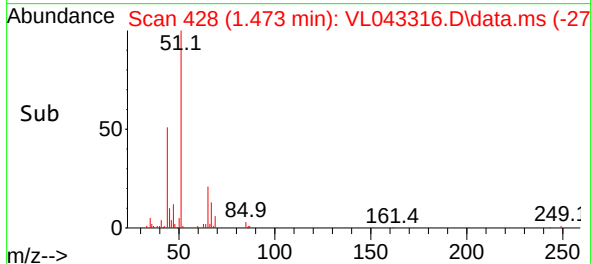
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



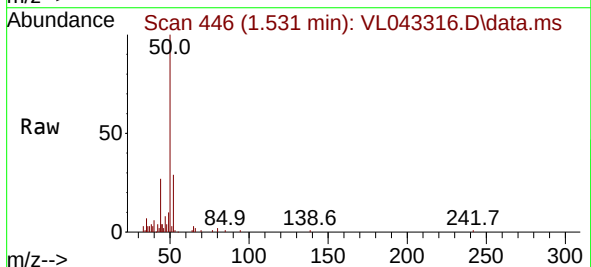
Tgt Ion: 51 Resp: 2550
Ion Ratio Lower Upper
51 100
67 39.2 14.9 22.3

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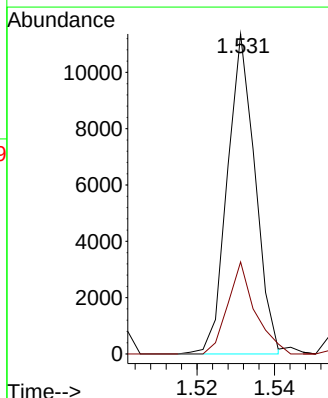
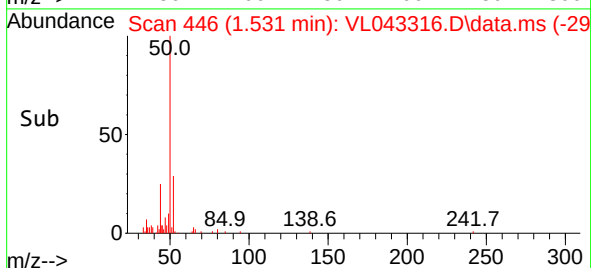
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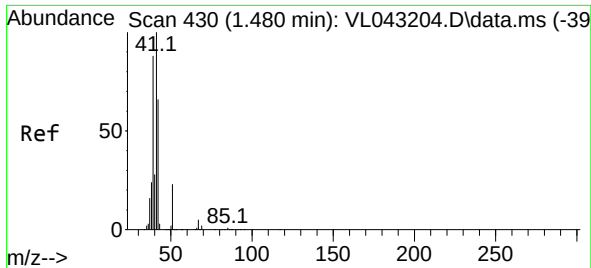


#4
Chloromethane
Concen: 0.735 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00



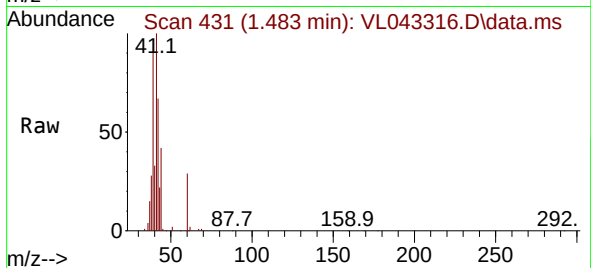
Tgt Ion: 50 Resp: 5664
Ion Ratio Lower Upper
50 100
52 28.7 24.1 36.1





#9
 Propene
 Concen: 1.692 ppbv m
 RT: 1.483 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043316.D
 Acq: 08 Dec 2025 17:00

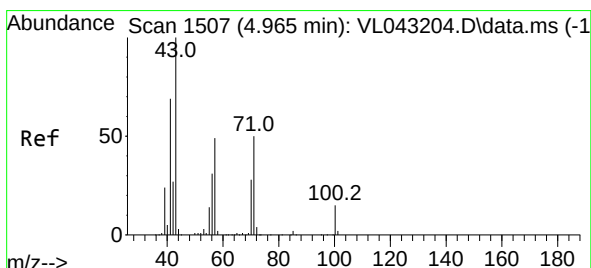
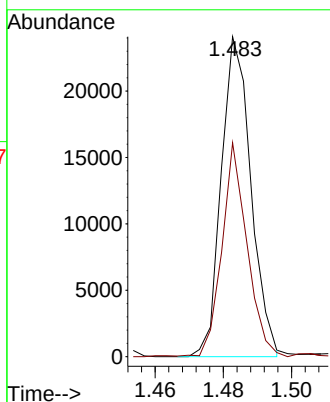
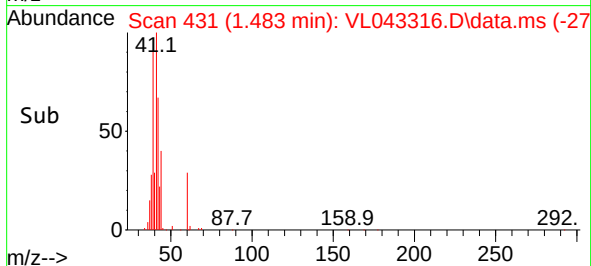
Instrument :
 MSVOA_L
 ClientSampleId :
 16-IA-1



Tgt Ion: 41 Resp: 1455
 Ion Ratio Lower Upper
 41 100
 42 294.1 3.7 5.5

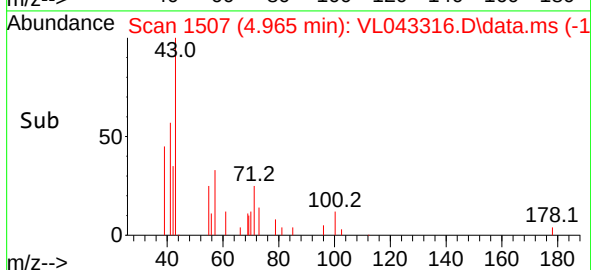
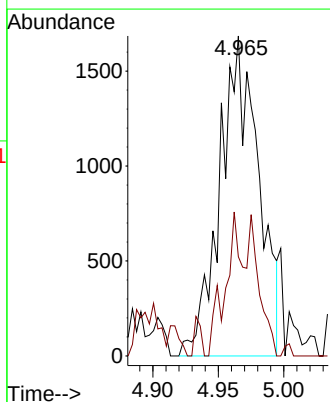
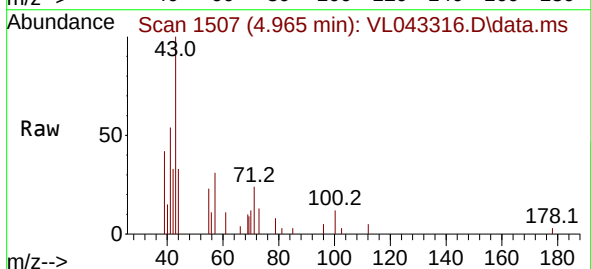
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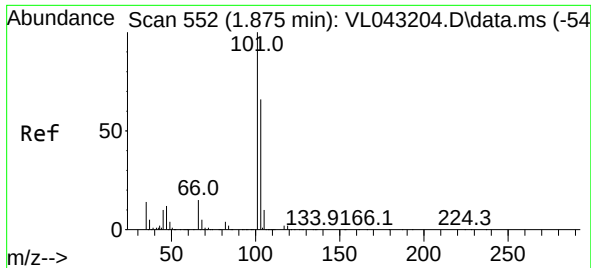
Reviewed By :Semsettin Yesilyurt 12/09/2025
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#10
 Heptane
 Concen: 0.134 ppbv m
 RT: 4.965 min Scan# 1507
 Delta R.T. -0.000 min
 Lab File: VL043316.D
 Acq: 08 Dec 2025 17:00

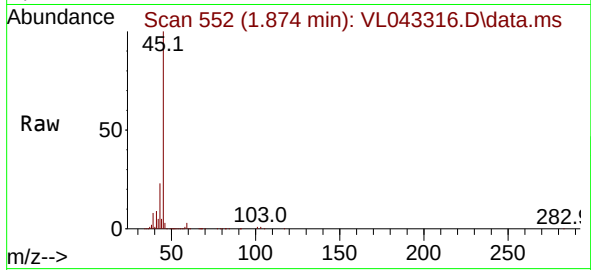
Tgt Ion: 43 Resp: 3437
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.209 ppbv
RT: 1.874 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

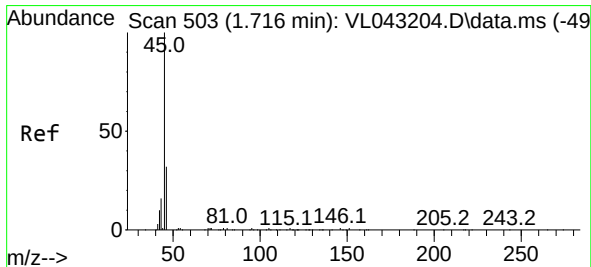
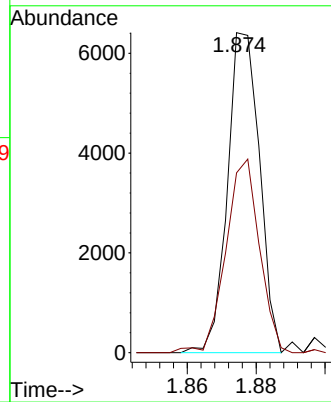
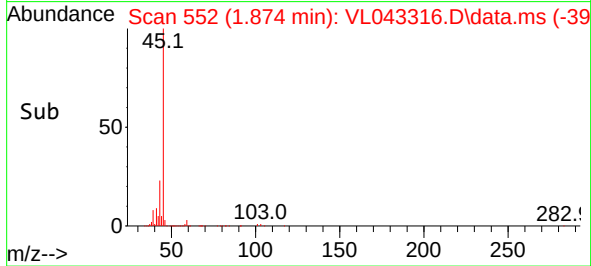
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



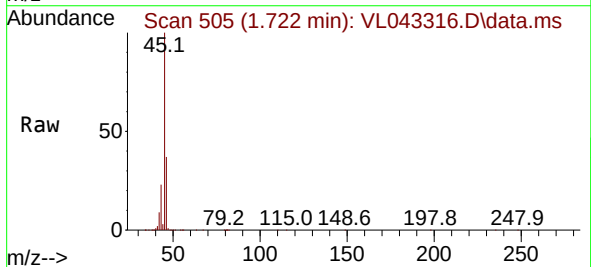
Tgt Ion:101 Resp: 4168
Ion Ratio Lower Upper
101 100
103 54.8 52.6 79.0

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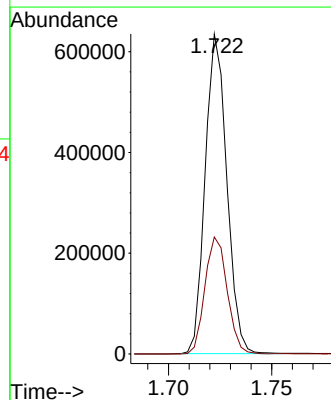
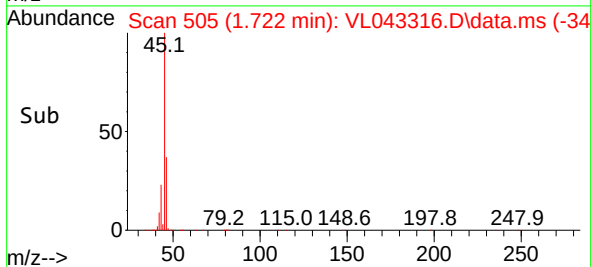
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

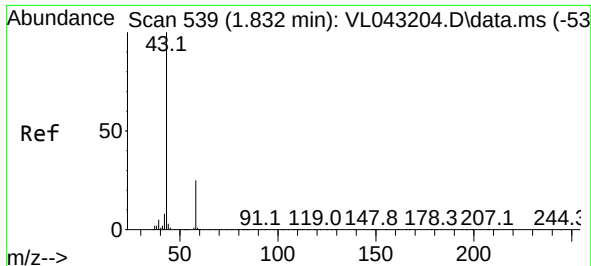


#13
Ethanol
Concen: 152.750 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00



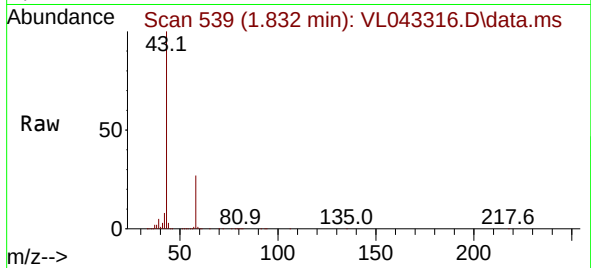
Tgt Ion: 45 Resp: 462202
Ion Ratio Lower Upper
45 100
46 37.9 15.0 59.8





#15
Acetone
Concen: 29.800 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

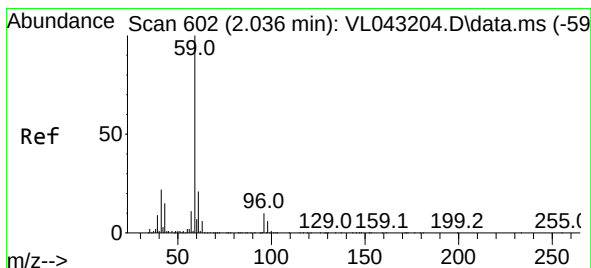
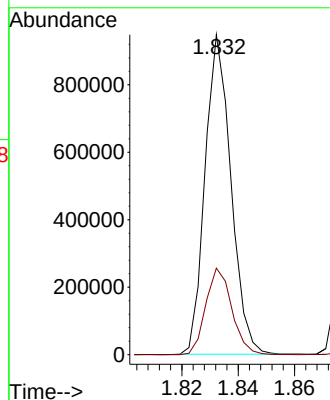
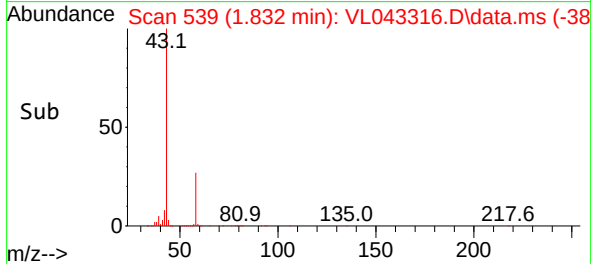
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



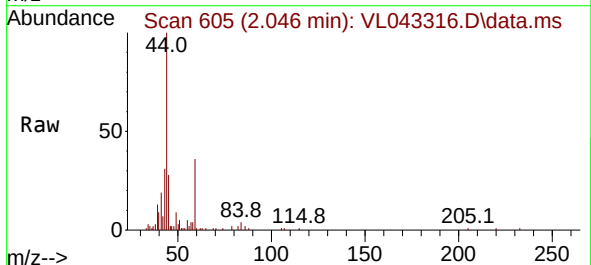
Tgt Ion: 43 Resp: 604849
Ion Ratio Lower Upper
43 100
58 27.2 20.7 31.1

Manual Integrations
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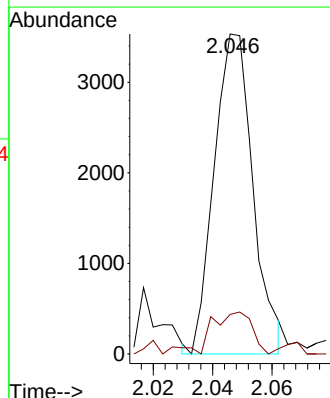
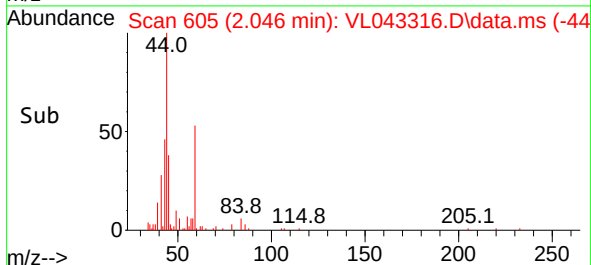
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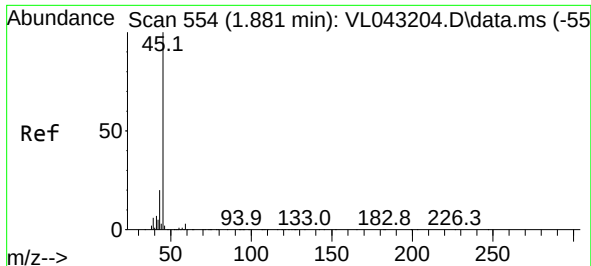


#17
tert-Butyl alcohol
Concen: 0.120 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00



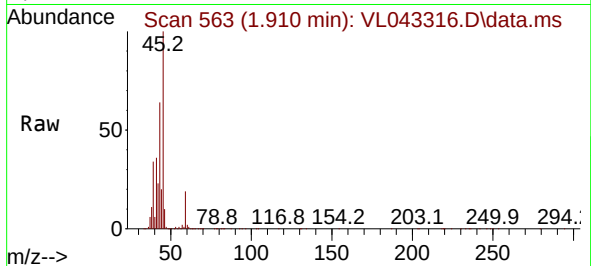
Tgt Ion: 59 Resp: 3190
Ion Ratio Lower Upper
59 100
57 2730.3 9.0 13.4#





#19
Isopropyl Alcohol
Concen: 687.812 ppbv
RT: 1.910 min Scan# 50
Delta R.T. 0.029 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

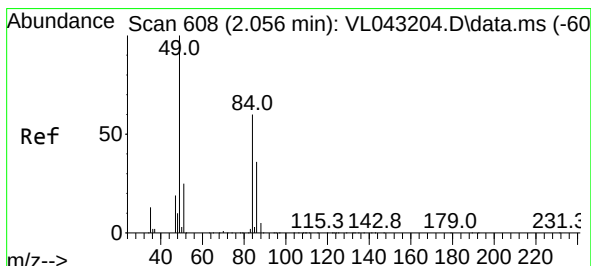
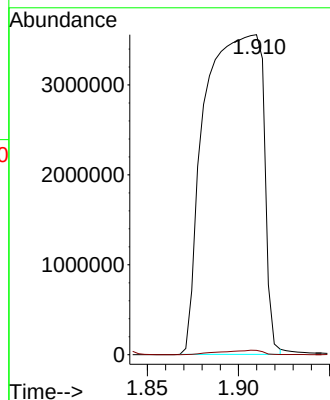
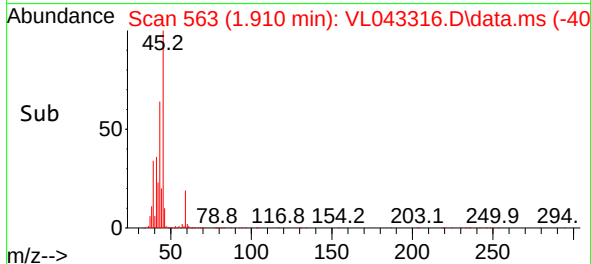
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



Tgt Ion: 45 Resp: 7888770
Ion Ratio Lower Upper
45 100
58 1.0 31.3 46.9

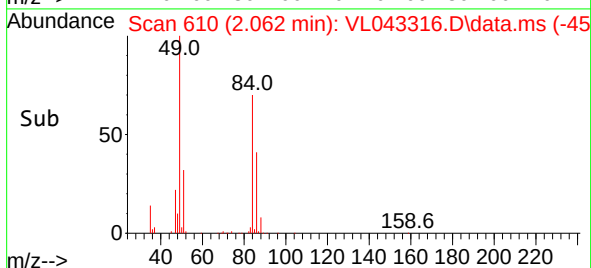
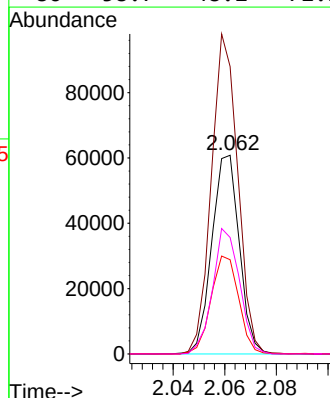
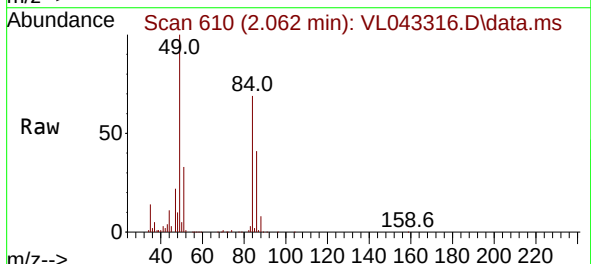
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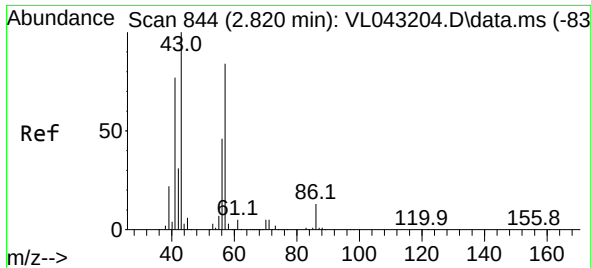
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#20
Methylene Chloride
Concen: 7.301 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

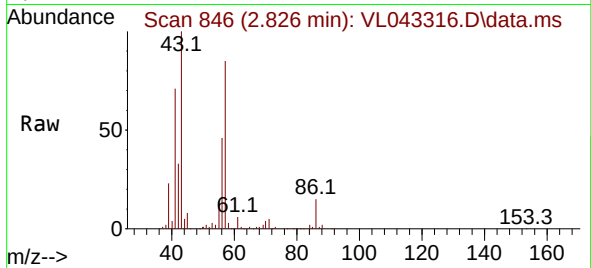
Tgt Ion: 84 Resp: 44935
Ion Ratio Lower Upper
84 100
49 144.4 132.9 199.3
51 47.5 34.8 52.2
86 58.7 48.2 72.2





#26
Hexane
Concen: 2.710 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

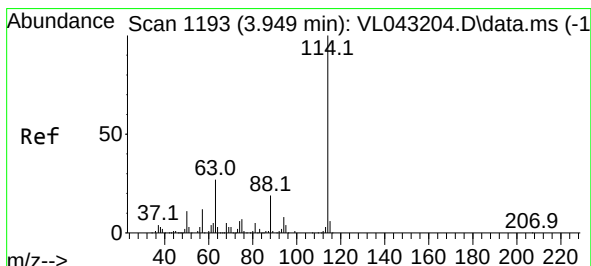
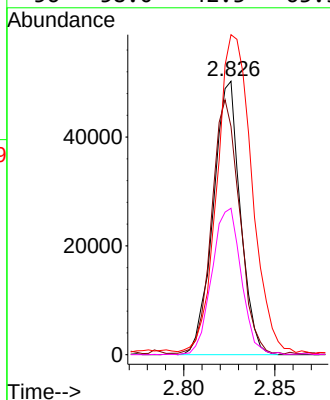
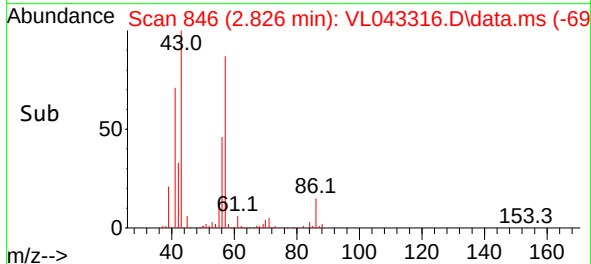
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



Tgt Ion: 57 Resp: 52020
Ion Ratio Lower Upper
57 100
41 97.1 74.6 111.8
43 154.4 179.0 268.4
56 58.0 42.3 63.5

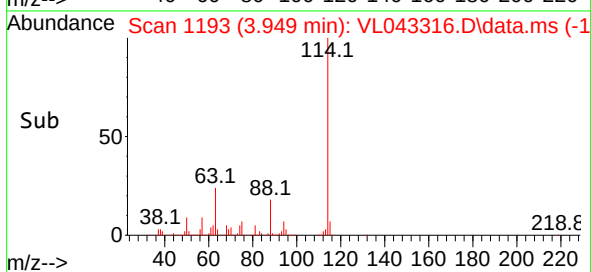
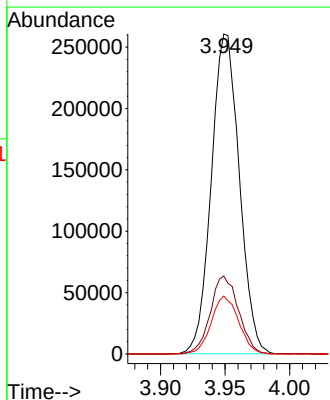
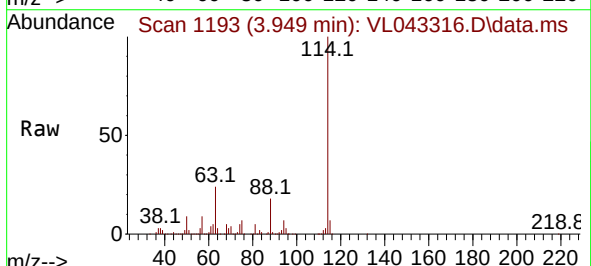
Manual Integrations
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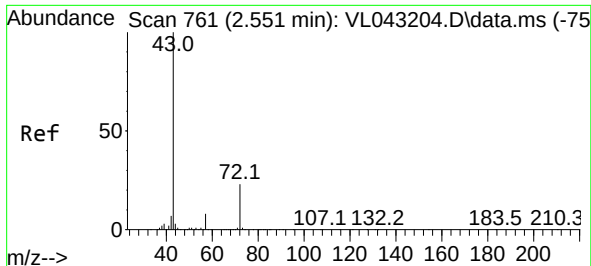
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:114 Resp: 393021
Ion Ratio Lower Upper
114 100
63 24.6 21.0 31.6
88 17.7 14.9 22.3





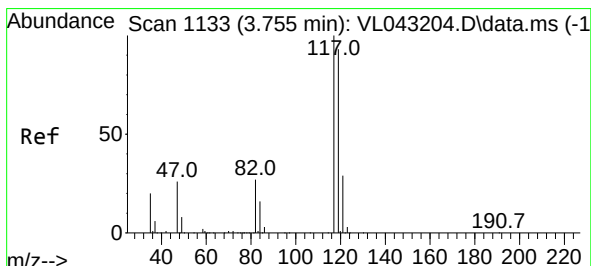
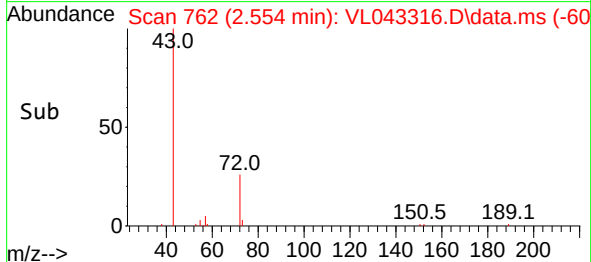
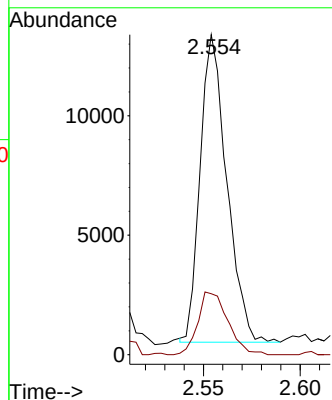
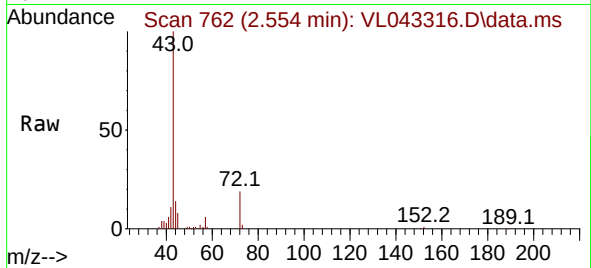
#34
2-Butanone
Concen: 0.444 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 43 Resp: 1230
Ion Ratio Lower Upper
43 100
72 22.9 18.1 27.1

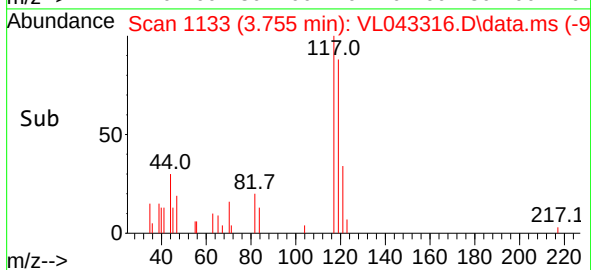
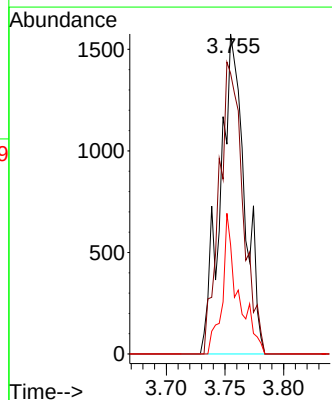
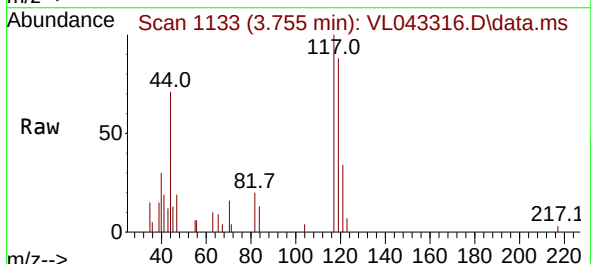
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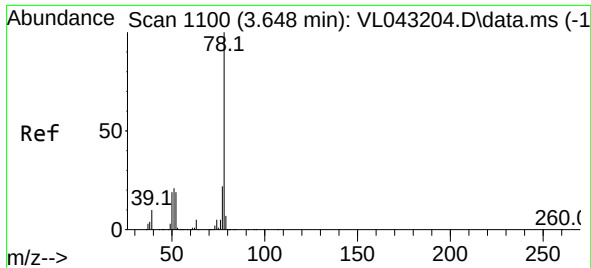
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

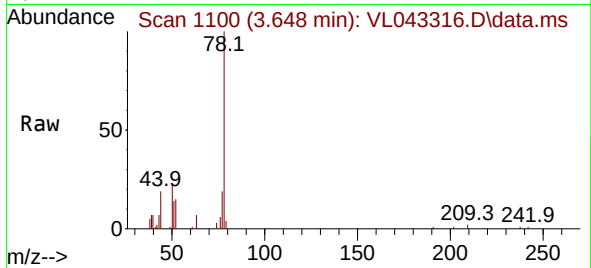
Tgt Ion:117 Resp: 2261
Ion Ratio Lower Upper
117 100
119 87.7 74.6 112.0
121 34.1 23.2 34.8





#36
Benzene
Concen: 0.201 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

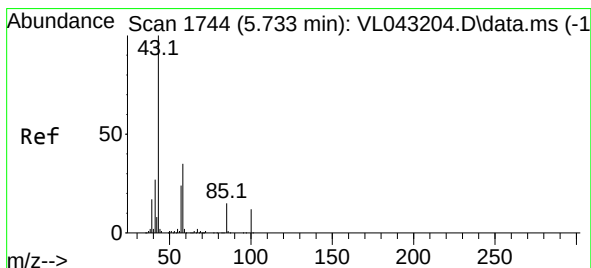
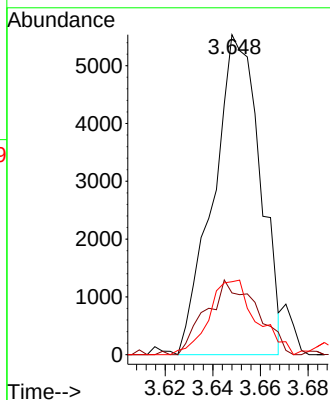
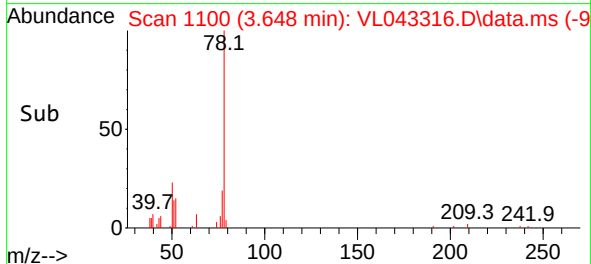
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



Tgt Ion: 78 Resp: 7554
Ion Ratio Lower Upper
78 100
77 19.3 17.5 26.3
50 21.4 15.5 23.3

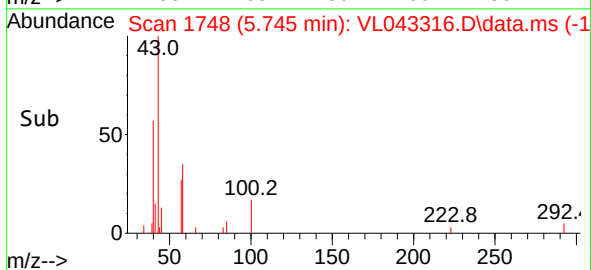
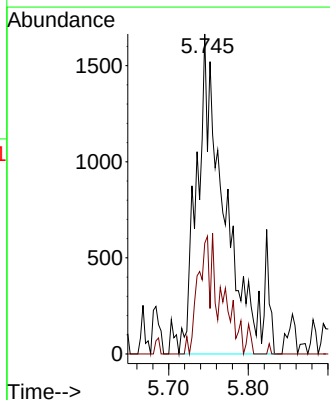
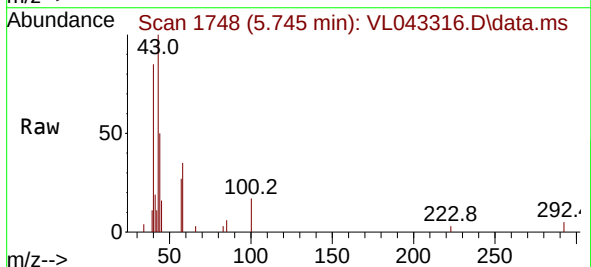
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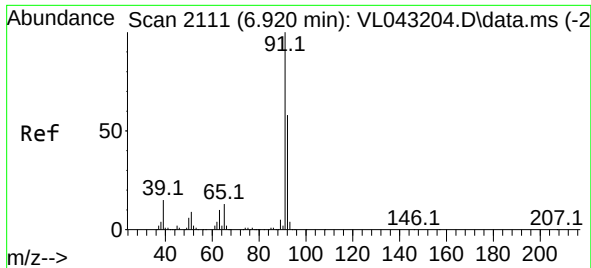
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#50
4-Methyl-2-Pentanone
Concen: 0.106 ppbv m
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 43 Resp: 4131
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#





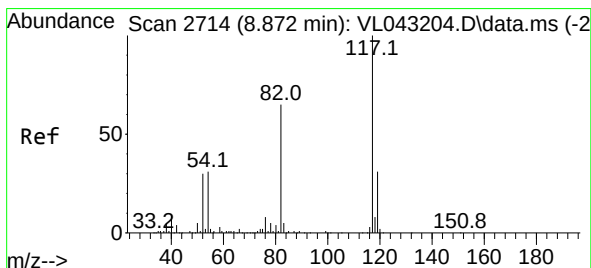
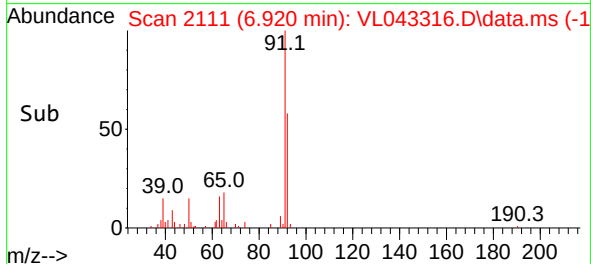
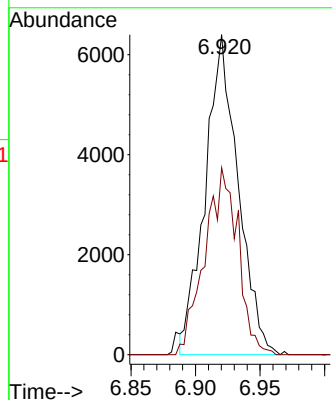
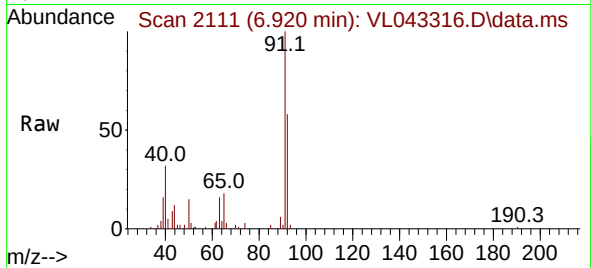
#53
Toluene
Concen: 0.255 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 91 Resp: 1137
Ion Ratio Lower Upper
91 100
92 59.0 47.4 71.0

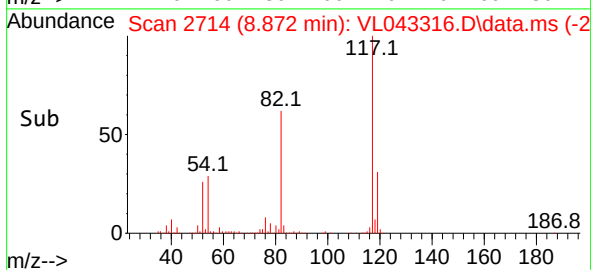
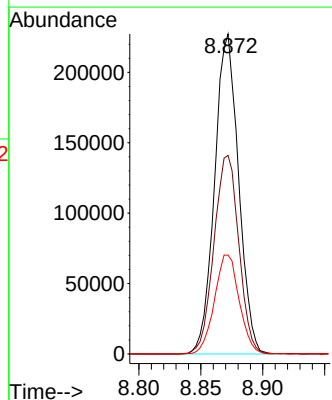
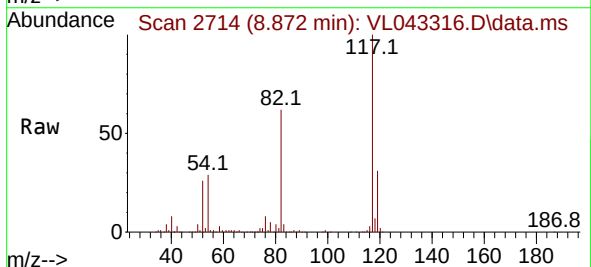
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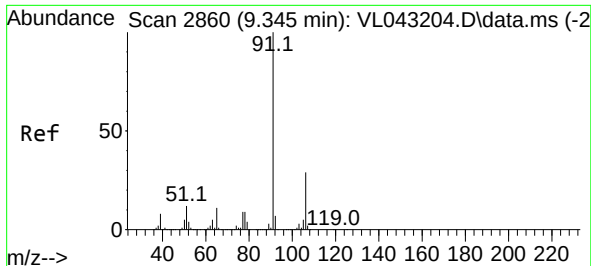
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:117 Resp: 306652
Ion Ratio Lower Upper
117 100
82 64.3 56.1 84.1
119 32.1 25.0 37.6





#58

Ethyl Benzene

Concen: 0.223 ppbv

RT: 9.344 min Scan# 2116

Delta R.T. -0.000 min

Lab File: VL043316.D

Acq: 08 Dec 2025 17:00

Instrument :

MSVOA_L

ClientSampleId :

16-IA-1

Tgt Ion: 91 Resp: 1316

Ion Ratio Lower Upper

91 100

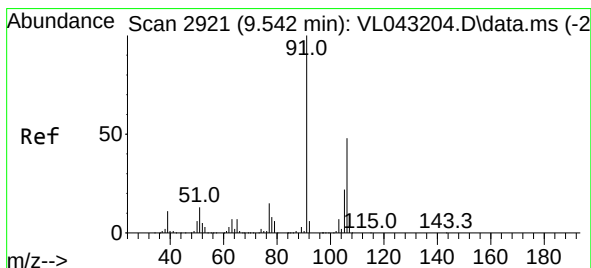
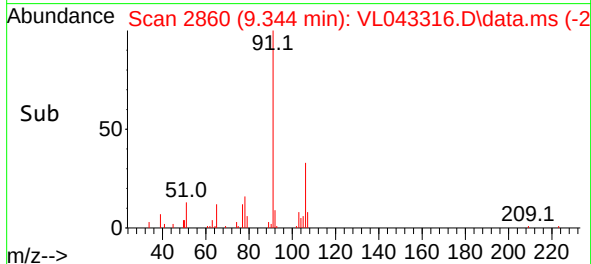
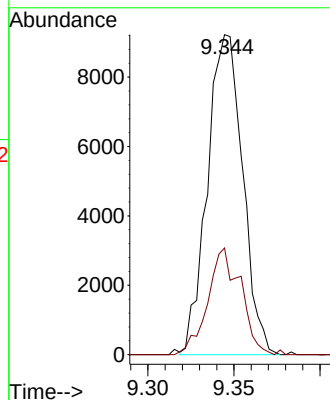
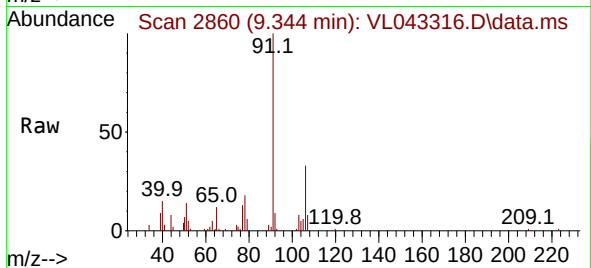
106 32.4 22.8 34.2

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Reviewed By :Semsettin Yesilyurt 12/09/2025

Supervised By :Mahesh Dadoda 12/11/2025



#59

m/p-Xylene

Concen: 0.897 ppbv

RT: 9.523 min Scan# 2915

Delta R.T. -0.020 min

Lab File: VL043316.D

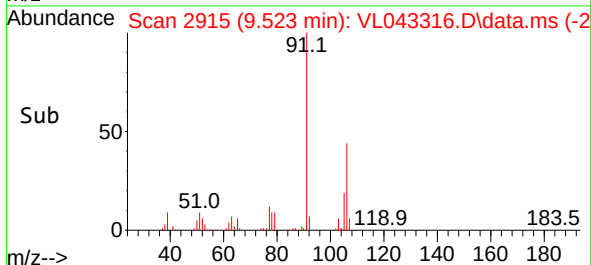
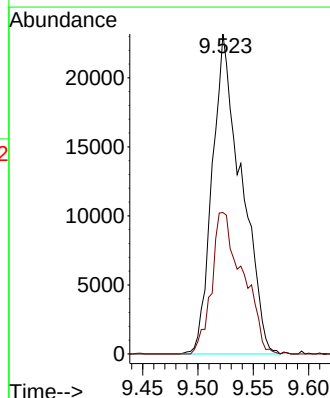
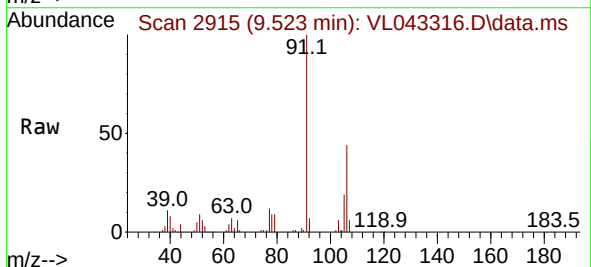
Acq: 08 Dec 2025 17:00

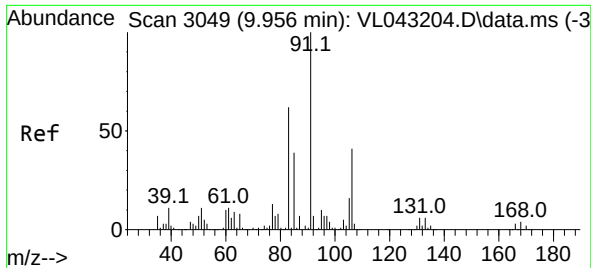
Tgt Ion: 91 Resp: 42461

Ion Ratio Lower Upper

91 100

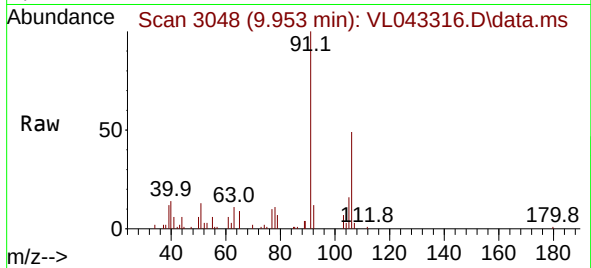
106 47.0 36.1 54.1





#60
o-Xylene
Concen: 0.239 ppbv
RT: 9.953 min Scan# 3049
Delta R.T. -0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

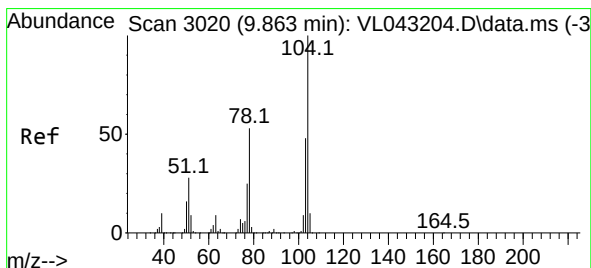
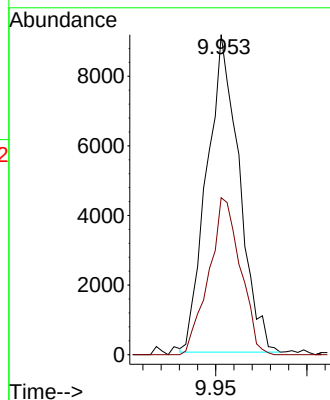
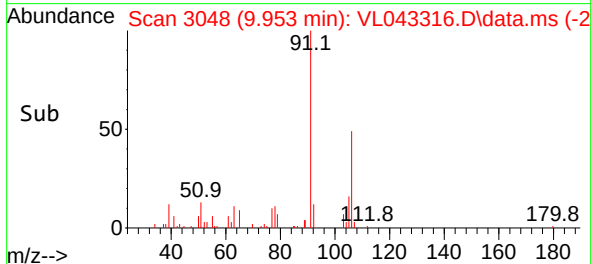
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1



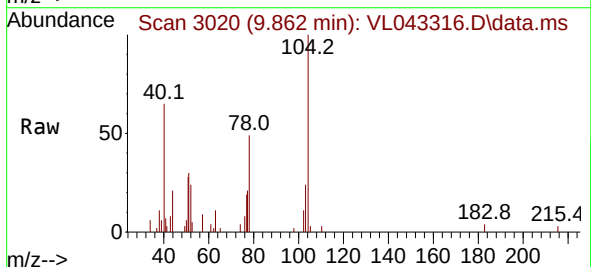
Tgt Ion: 91 Resp: 11270
Ion Ratio Lower Upper
91 100
106 48.2 20.9 62.8

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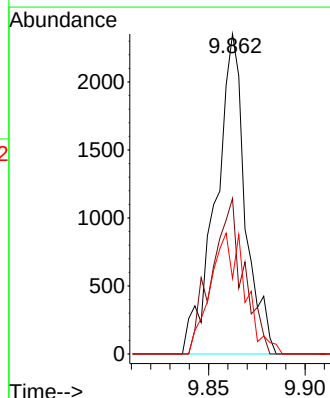
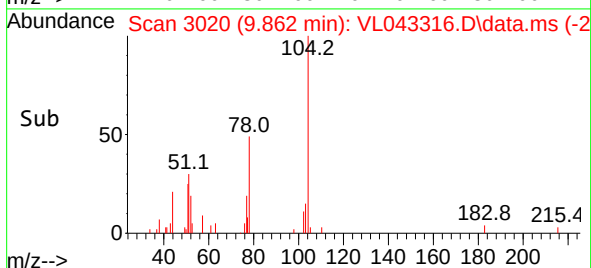
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

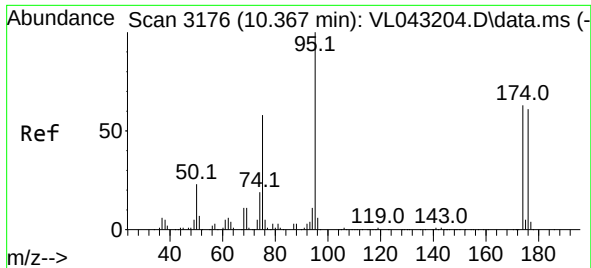


#61
Styrene
Concen: 0.121 ppbv m
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00



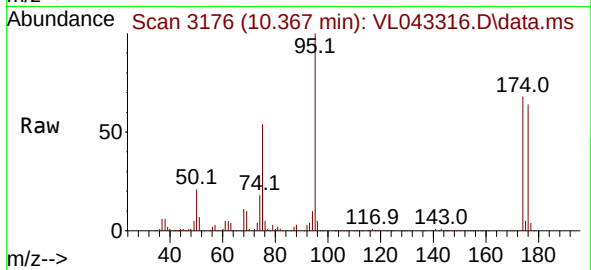
Tgt Ion:104 Resp: 2498
Ion Ratio Lower Upper
104 100
78 51.9 42.1 63.1
103 44.7 37.2 55.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.363 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. -0.000 min
 Lab File: VL043316.D
 Acq: 08 Dec 2025 17:00

Instrument :
 MSVOA_L
 ClientSampleId :
 16-IA-1



Tgt Ion: 95 Resp: 232930
 Ion Ratio Lower Upper
 95 100
 174 68.8 50.2 75.2
 175 5.0 4.1 6.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

